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# LCD TV

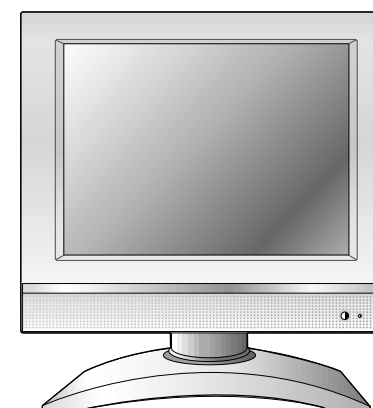
## SERVICE MANUAL

CHASSIS : ML-024C

**MODEL : RU-13LA60**

### CAUTION

BEFORE SERVICING THE CHASSIS,  
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



P/NO : 3828VD0131Z

June, 2003  
Printed in Korea

# SAFETY PRECAUTIONS

## IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by in the Schematic Diagram and Replacement Parts List.

It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards.

Do not modify the original design without permission of manufacturer.

### General Guidance

An Isolation Transformer should always be used during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and its components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

Due to high vacuum and large surface area of picture tube, extreme care should be used in handling the Picture Tube. Do not lift the Picture tube by its Neck.

Before returning the receiver to the customer,

always perform an AC leakage current check on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

### Leakage Current Cold Check(Antenna Cold Check)

With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.

If the exposed metallic part has a return path to the chassis, the measured resistance should be between  $1M\Omega$  and  $5.2M\Omega$ .

When the exposed metal has no return path to the chassis the reading must be infinite.

Another abnormality exists that must be corrected before the receiver is returned to the customer.

### Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

Do not use a line Isolation Transformer during this check.

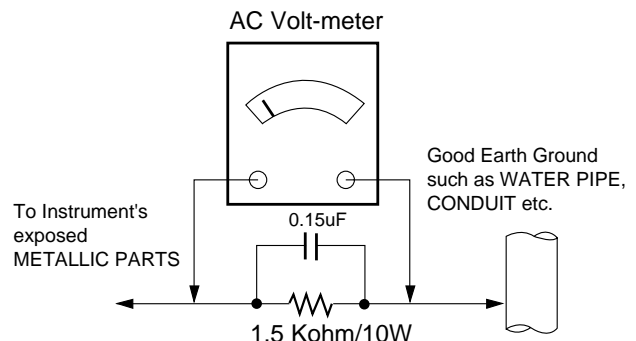
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.

Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which corresponds to 0.5mA.

In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

### Leakage Current Hot Check circuit



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# SPECIFICATIONS

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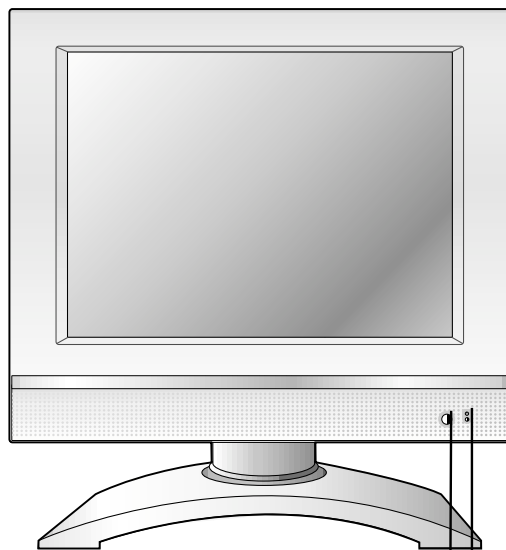
<b>Model</b>	RU-13LA60
Horizontal size (inches)	13.6
Height (inches)	14.4
Depth (inches)	6.6
Weight (pounds)	10
<b>Power requirements</b>	AC 110-240V ~ 50/60Hz
<b>Television system</b>	NTSC
<b>Television channels</b>	VHF : 2 ~ 13, UHF : 14 ~ 69 Cable : 1 ~ 125
<b>Television Screen</b>	LCD Panel
<b>Power consumption</b>	45 W
<b>Audio output</b>	1 W + 1 W
<b>External input ports</b>	Power cord socket (1) Component (480i) input (1 set) S-VIDEO input (1) Headphone jack (1) Video/Audio input (1 set) Antenna input (1)
<b>Power supply cord set</b>	Standard North America three wire earth-grounding with flexible cord SJT type or higher type.

CAUTION: If replacing a part becomes necessary, replace the part with an exact duplicate.  
Contact any LG authorized service center.

# DESCRIPTION OF CONTROLS

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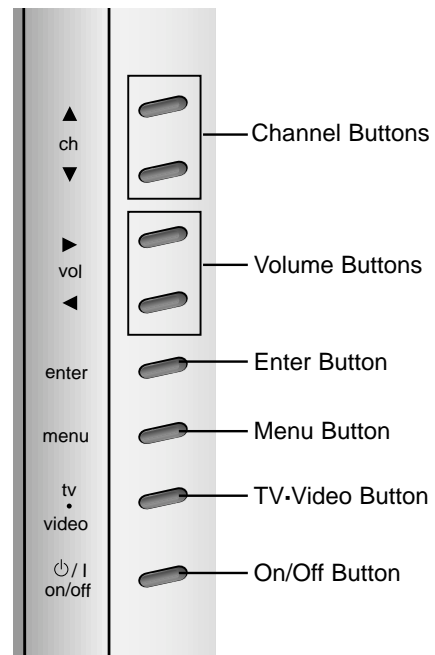
## Front of the TV



**Remote Control Sensor**

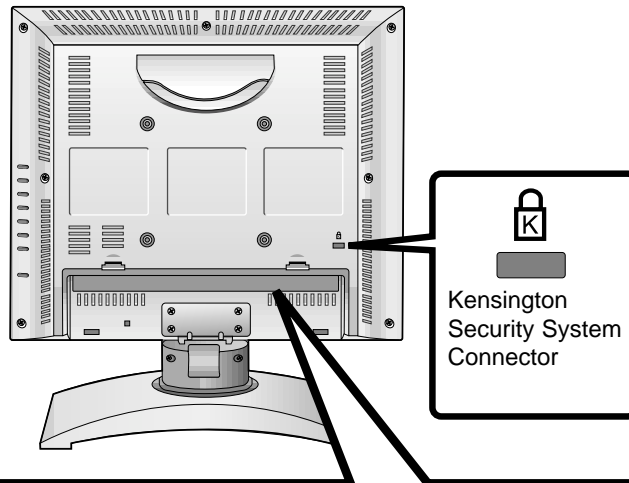
**Power/Standby indicator**  
Illuminates red in standby mode, Illuminates green when the TV is turned on.

## Side Control Panel

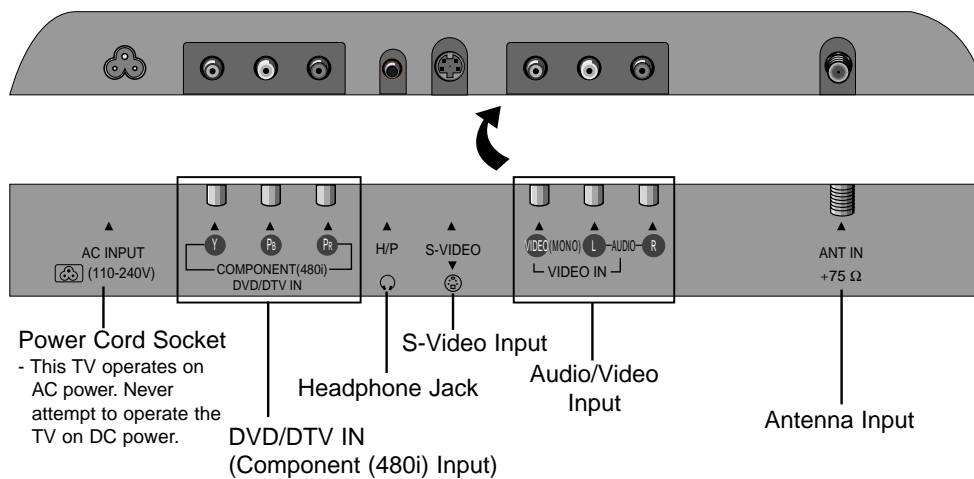


# DESCRIPTION OF CONTROLS

## Back of the TV

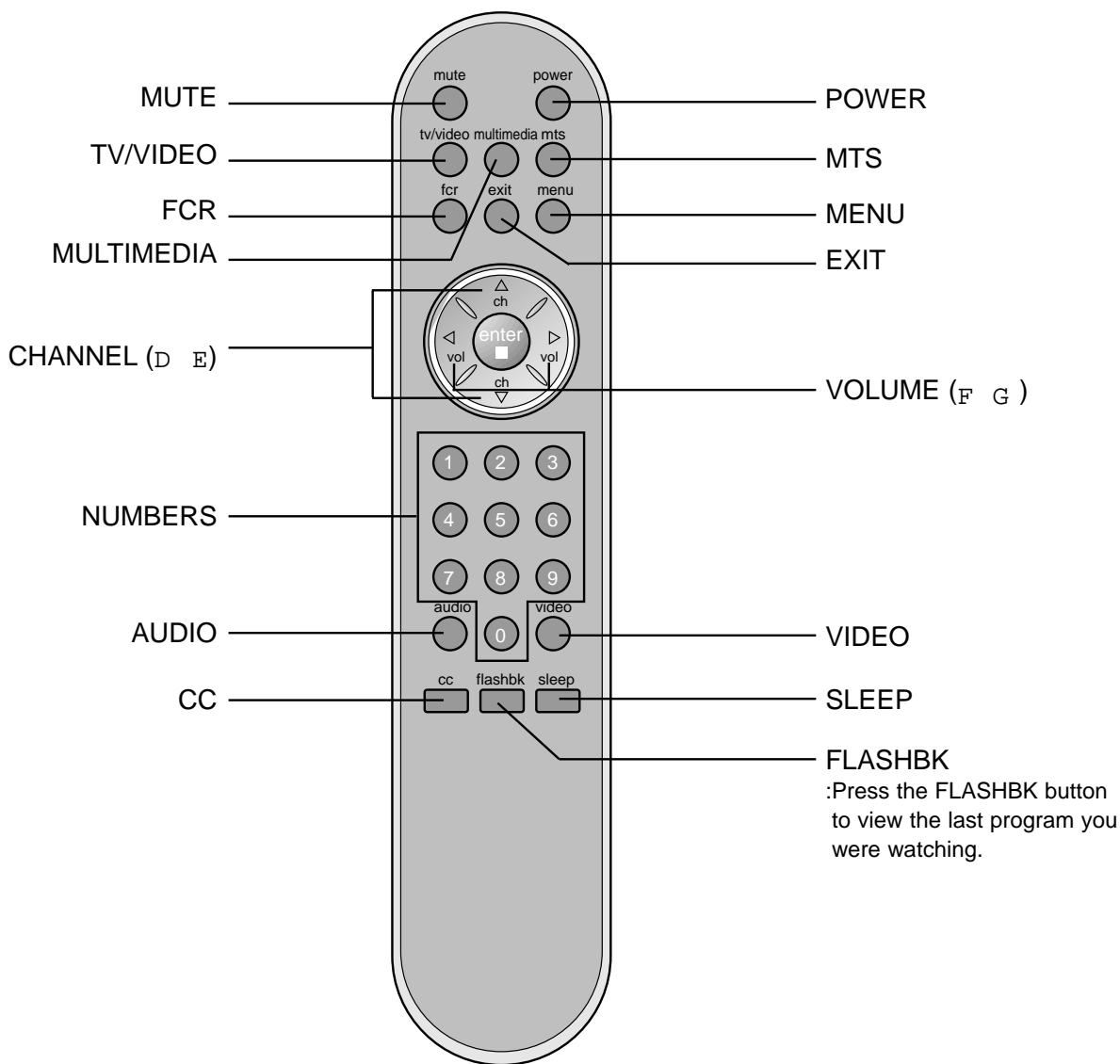


## Connection Panel



# DESCRIPTION OF CONTROLS

## Remote Control Buttons



# ADJUSTMENT INSTRUCTION

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## 1. Application Object

This instruction is for the application to the LCD TV, ML-024B/C.

## 2. Notes

- (1) This LCD TV has power within set. Connect the power correctly, then start the adjustment.
  - (2) The adjustment must be performed under the correct sequence.
  - (3) The adjustment must be performed in the circumstance of  $25 \pm 5^{\circ}\text{C}$  of temperature and  $65 \pm 10\%$  of relative humidity if there is no specific designation.
  - (4) The set must be operated for 15 minutes preliminarily before adjustment if there is no specific designation.
- o 'Heat Run' must be performed with the full white signal or TV noise signal in the internal part of the set.
  - o The time for 'Heat Run' can be changed owing to production plan.
  - o Condition of Line Test : Standard color signal - 65!1dBuV

## 3. RGB LEVEL Adjustment

### 3-1. Required Test Equipment

- (1) PATTERN GENERATOR is possible 10 STEP(408NPS-READER)
- (2) Remote control for adjustment

### 3-2. Preparation for Adjustment

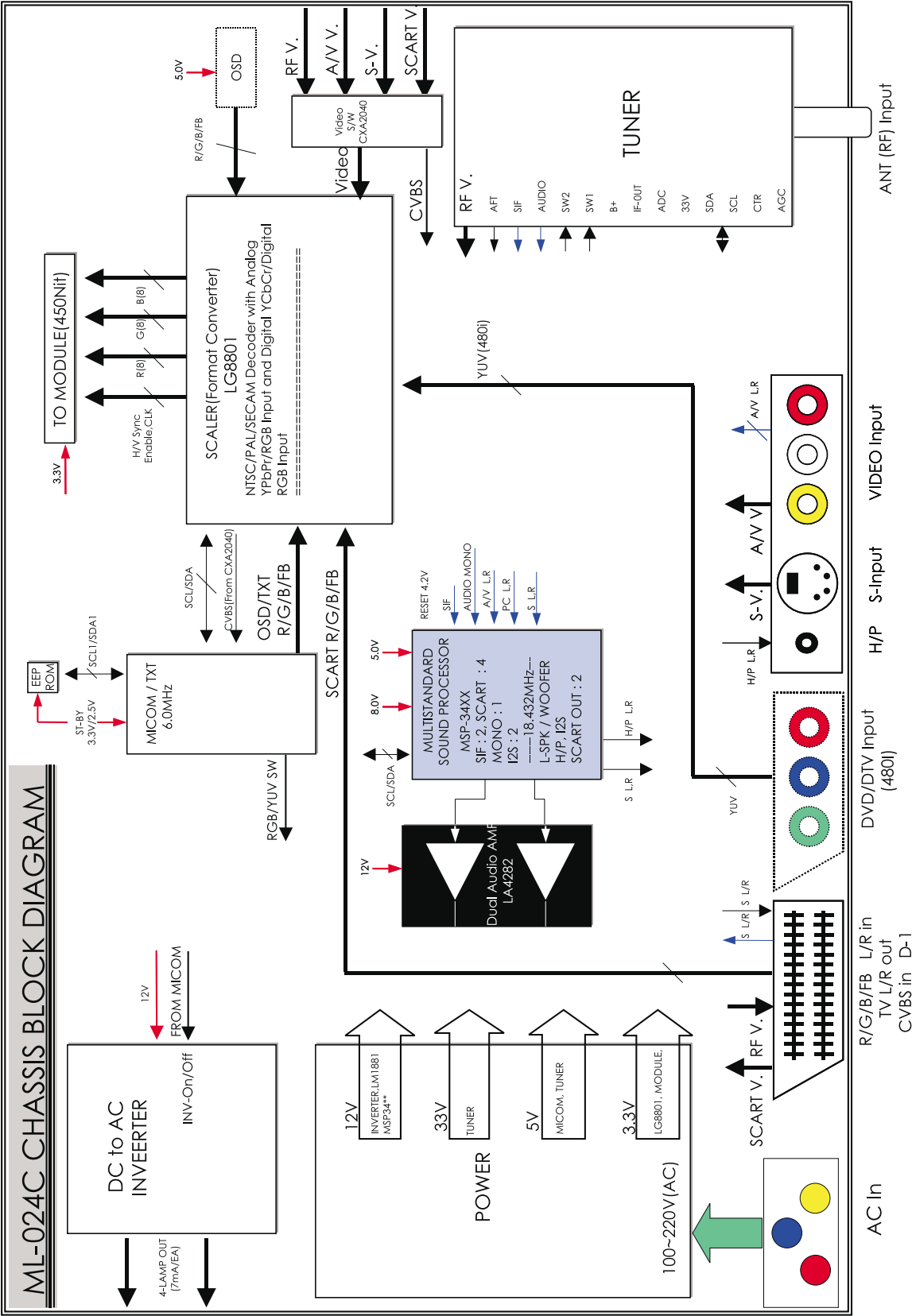
- (1) Select the RGB LEVEL by pressing the ADJ Key(or SVC Key) on the remote controller for adjustment.
- (2) Using the VOL + KEY and it selects.
- (3) Using the VOL +/- KEY from R-DRIVE item, adjust 9th and 10th STEP LEVEL until the point does not become classification.
- (4) Adjust the same method in G-DRIVE and B-DRIVE.
- (5) When the adjustment is completed, pressing the ENTER Key to exit.

## 4. Option

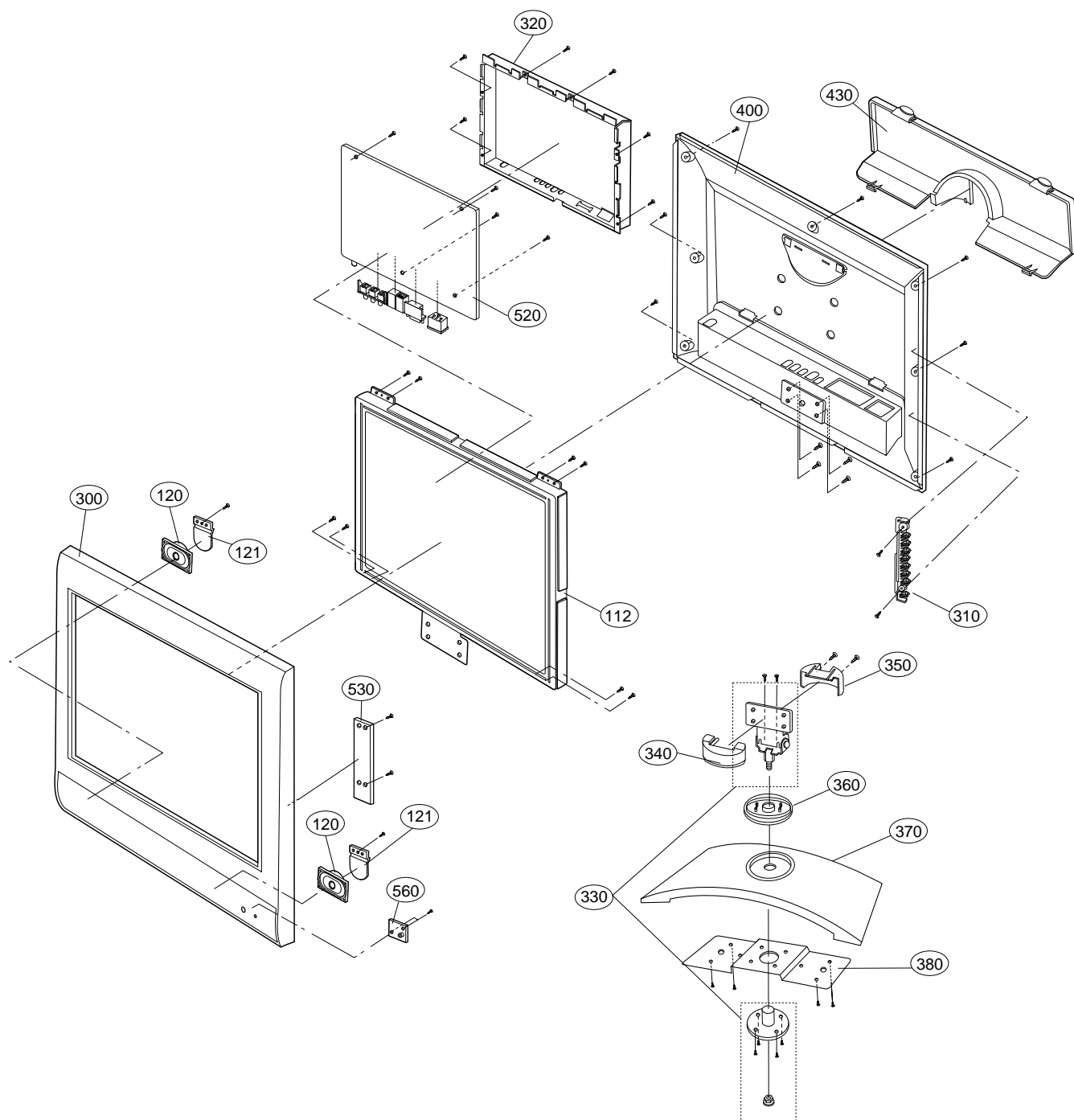
No.	Item	Specification	Remark
1	COMPO	0	Component input mode 0 : not ready                      1 : ready
2	3SYS	0	Video input applicable system 0 : NTSC-M(North America) 1 : NTSC-M & PAL-M/N multi(South America)
3	BLUEB	1	No - signal Video mode 0 : Black-Back                      1 : Blue-Back



BLOCK DIAGRAM



# EXPLODED VIEW



## EXPLODED VIEW PARTS LIST

No.	PART NO.	DESCRIPTION
112	6306V13001A	LCD MODULE,LC130V01-A2 LG PHILPS TFT COLOR VGA
120	6400VA0017A	SPEAKER,GENERAL T401SX-095K14 LG C&D 8 OHM 1.0/1.5W
121	4950V00170A	METAL,HOLDER SECC(EGI)
300	3091V00493E	CABINET ASSEMBLY,RU-13LA60 STEREO ML024C CANADA
310	5020V00778B	BUTTON,CONTROL RU-13LA60 ABS, HF-380 8KEY
320	4950V00144B	METAL,FRAME SECC(EGI) RJ-13LA60,PRESS DIE
330	4950V00157B	METAL,HINGE ASSY NON RJ-13LA60
340	3550V00300C	COVER,FRONT RJ-13LA60 ABS
350	3550V00301C	COVER,REAR RJ-13LA60 ABS HINGE
360	4810V00785B	BRACKET,DECO RU-13LA60 NON ABS, HF-380 .
370	4810V00784C	BRACKET,STAND RJ-13LA60 ML024C ABS .
380	4950V00161B	METAL,STAND EGI RJ-13LA60 PRESS
400	3809V00341B	BACK COVER ASSEMBLY,RU-13LA60 NON ZENITH
430	3550V00302C	COVER,REAR AV RJ-13LA60 ABS .
520	6871VMMQ08A	PCB ASSEMBLY,MAIN ML-024C RU-13LA60
530	6871VSMV23A	PCB ASSEMBLY,SUB CONT ML024C CONTROL 13
560	6871VSMV22A	PCB ASSEMBLY,SUB POWER ML024C POWER 13

# REPLACEMENT PARTS LIST

For Capacitor & Resistors, the characters at 2nd and 3rd digit in the P/No. means as follows;

CC, CX, CK, CN : Ceramic	RD : Carbon Film
CQ : Polyester	RS : Metal Oxide Film
CE : Electrolytic	RN : Metal Film
	RF : Fusible

RUN DATE : 2003.6.16

LOCA. NO	PART NO	DESCRIPTION
<b>IC</b>		
IC100	0IZZVC0066A	M27C512_10F1 DIP 32P DIP 52PIN
IC100	0ISM555000B	SDA555XFL 52DIP ST FLASH MEMORY
IC101	0IAL241610B	AT24C16A10PI2.7 8PIN DIP ST EEPROM
IC102	0IFA752700A	KA75270Z 3 TP RESET IC
IC351	0IMCRFA010A	KA7809R 2P DPAK, R/TP REGULATOR
IC352	0ISO204000A	CXA2040AQ 32P,QFP BK IIC BUS VIDEO
IC501	0IMCRTW001B	LG8801H 160P QPFD TRAY SCALER+VIDEO
IC502	0ICTMMO004A	SC786108DWR2 16 R/TP OSD
IC51	0ITK118100B	TK11840L 8P SOT23L R/TP DCDC CONVERTER
IC52	0IMCRRH005A	UM6K1N 6P SOT363 R/TP 30V 0.1A
IC53	0IMCRRH005A	UM6K1N 6P SOT363 R/TP 30V 0.1A
IC601	0IMCRMN014A	MSP3440G QA B8 V3 80 QFP TRAY SOUND
IC602	0ISA428200A	LA4282 12S 2CHX10W AUDIO AMP
IC603	0IKE704200J	KIA7042AF SOT89 TP 4.2V
IC604	0IMCRFA009A	KA78M08RTM 2P DPAK, R/TP REGULATOR
IC701	0IMCRFA017A	KA3883C 8 SOP R/TP SMPS CONTROLLER
IC702	0IMCRFA007A	KA431Z 3DIP,TO92 TP SHUNT REGULATOR
IC703	0IMCRFA016A	KA78RH33 2P DPAK R/TP 800MA
IC704	0IKE780500P	KIA78L05BP(AT) 3P 5V,150MA
IC707	0IMCRKE006B	KIA278R33PI TO220IS 4P ST 3.3V
IC708	0IKE780500Q	KIA7805API 3P TO220 ST REGULATOR 5V
IC709	0IKE780500Q	KIA7805API 3P TO220 ST REGULATOR 5V
IC710	0IMCRKE006B	KIA278R33PI TO220IS 4P ST 3.3V
PC1	0ILI817000G	LTV817MVB 4P,DIP BK PHOTO COUPLER
PC2	0ILI817000G	LTV817MVB 4P,DIP BK PHOTO COUPLER
Q101	0IFA270000A	2N7000TA TO92, 3P
Q102	0IFA270000A	2N7000TA TO92, 3P
Q54	0IMCRRH004A	5P SOT353 R/TP DUAL SWITCHING TR
<b>TRANSISTOR</b>		
IC2	0TF492509AA	SI4925DY TP TEMIC 30V 6.1A SO8
IC705	0TF492509AA	SI4925DY TP TEMIC 30V 6.1A SO8
IC706	0TF492509AA	SI4925DY TP TEMIC 30V 6.1A SO8
Q1	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q100	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1101	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1102	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1103	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q200	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q201	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q202	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q353	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q403	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q406	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q502	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q51	0TRKE80021A	KTC5103D KEC R/TP DPAK 60V 5A

LOCA. NO	PART NO	DESCRIPTION
Q510	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q52	0TRKE80021A	KTC5103D KEC R/TP DPAK 60V 5A
Q53	0TFV180034A	SUD45P0315 TO252 30V 13A
Q55	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q56	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q57	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q651	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q701	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q702	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q703	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q704	0TFFC10007A	FQPF12N60 TO220 600V 10.5A
Q705	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q801	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q802	0TR150400BA	CHIP 2SA1504S(ASY) KEC
<b>DIODE</b>		
D100	0DD181009AB	KDS181 TP KEC 85V 300MA
D51	0DD181009AB	KDS181 TP KEC 85V 300MA
D52	0DD181009AB	KDS181 TP KEC 85V 300MA
D53	0DD181009AB	KDS181 TP KEC 85V 300MA
D54	0DD181009AB	KDS181 TP KEC 85V 300MA
D55	0DRDI00028B	B350A DIODES R/TP SMA 35V 3A
D56	0DRDI00028B	B350A DIODES R/TP SMA 35V 3A
D57	0DD181009AB	KDS181 TP KEC 85V 300MA
D601	0DD181009AB	KDS181 TP KEC 85V 300MA
D602	0DD181009AB	KDS181 TP KEC 85V 300MA
D701	0DB260000AA	G2SBA60 BK G.I 600V 1.5A 60A 5UA
D702	0DD100009AM	EU1ZV(1) TP SANKEN
D703	0DD140009AA	EK14 V(1) 40V 1.5A 40A 0.2US 5MA
D704	0DD100009AM	EU1ZV(1) TP SANKEN
D706	0DR060009AA	TVR06J DO41 600V 0.6A
D707	0DRSD00091A	SF20JC10 ST FTO220(4115) 100V 20A
D709	0DRSD00091A	SF20JC10 ST FTO220(4115) 100V 20A
LED1	0DL200000CA	LED,SAM5670(DL2LRG) BK YGREEN
ZD202	0DZRM00178A	ZENERS,UDZS TE17 5.1B
ZD203	0DZRM00178A	ZENERS,UDZS TE17 5.1B
ZD400	0DZ330009BA	ZENERS,HZT33
ZD701	0DZ180009AG	ZENERS,MTZJ18B
ZD702	0DZ150009AD	ZENERS,MTZJ15B
ZD703	0DZ820009AH	ZENERS,MTZJ8.2B
<b>CAPACITOR</b>		
C10	0CE227DF618	220UF STD 16V M
C101	0CE107BF618	100UF KME 16V M
C113	0CE107BF618	100UF KME 16V M
C128	0CE227BH618	220UF KME 25V M
C209	0CE476DF618	47UF STD 16V M
C211	0CE106DF618	10UF STD 16V M

# REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION
C215	0CE106DF618	10UF STD 16V M
C216	0CE106DF618	10UF STD 16V M
C289	0CE104DK618	0.1000UF STD 50V M
C302	0CE476DF618	47UF STD 16V M
C315	0CE476DF618	47UF STD 16V M
C317	0CE476DF618	47UF STD 16V M
C351	0CE227DF618	220UF STD 16V M
C353	0CE475DK618	4.7UF STD 50V 20%
C354	0CE476DF618	47UF STD 16V M
C356	0CE106DF618	10UF STD 16V M
C357	0CE106DF618	10UF STD 16V M
C362	0CE107DF618	100UF STD 16V M
C364	0CE336DF618	33UF STD 16V M
C380	0CE105DK618	1UF STD 50V M
C381	0CE106DF618	10UF STD 16V M
C403	0CE476DH618	47UF STD 25V 20%
C404	0CE108DD618	1000UF STD 10V M
C408	0CE106DK618	10UF STD 50V M
C412	0CE105DK618	1UF STD 50V M
C499	0CE476DF618	47UF STD 16V M
C501	0CE107DF618	100UF STD 16V M
C51	0CF2241N5AA	0.22UF D 100V 10%
C523	0CE104DK618	0.1000UF STD 50V M
C526	0CE107DF618	100UF STD 16V M
C541	0CE107DF618	100UF STD 16V M
C55	0CF2241N5AA	0.22UF D 100V 10%
C581	0CE107DF618	100UF STD 16V M
C60	0CK105DF64A	1UF 2012 16V 20%
C601	0CE477BF618	470UF KME 16V M
C602	0CE477BF618	470UF KME 16V M
C605	0CE107BF618	100UF KME 16V M
C613	0CE106DF618	10UF STD 16V M
C614	0CE106DF618	10UF STD 16V M
C616	0CE107DF618	100UF STD 16V M
C617	0CE107BF618	100UF KME 16V M
C62	0CK105DF64A	1UF 2012 16V 20%
C620	0CE335DK618	3.3UF STD 50V 20%
C621	0CE107BF618	100UF KME 16V M
C626	0CK224DF56A	220000PF 2012 16V 10%
C627	0CK224DF56A	220000PF 2012 16V 10%
C629	0CE107DF618	100UF STD 16V M
C633	0CE107DF618	100UF STD 16V M
C643	0CE476BF618	47UF KME TYPE 16V 20%
C646	0CE225DK618	2.2UF STD 50V 20%
C647	0CE225BK618	2.2UF KME TYPE 50V 20%
C648	0CQ1031N509	0.01U 100V K
C649	0CQ1031N509	0.01U 100V K
C651	0CE107BH618	100UF KME 25V M
C652	0CE107BF618	100UF KME 16V M
C654	0CE476BF618	47UF KME TYPE 16V 20%
C67	0CE337ZF638	330UF SEP 16V 20%

LOCA. NO	PART NO	DESCRIPTION
C69	0CE107BH618	100UF KME 25V M
C698	0CK224DF56A	220000PF 2012 16V 10%
C699	0CK224DF56A	220000PF 2012 16V 10%
C700	181-091D	DEHR33A102KN2A 1000PF 1KV 10%,10%
C701	0CF474285B0	0.47UF S 275V 10%
C702	0CF334285B0	0.33UF S 275V 10%
C703	181-120N	1000PF 4KV M E FMTW LEAD4.5
C704	181-120N	1000PF 4KV M E FMTW LEAD4.5
C706	0CE476BK618	47UF KME 50V M
C707	0CE1072V610	100UF KMF 450V 20%
C708	181-091D	DEHR33A102KN2A 1000PF 1KV 10%,10%
C709	181-091U	R 220PF 2KV 10%,10%
C717	181-091D	DEHR33A102KN2A 1000PF 1KV 10%,10%
C718	181-091D	DEHR33A102KN2A 1000PF 1KV 10%,10%
C719	0CE227DK618	220UF STD 50V M
C720	181-091D	DEHR33A102KN2A 1000PF 1KV 10%,10%
C721	0CE4772J618	470UF KMF 35V 20%
C722	0CE477BF618	470UF KME 16V M
C723	0CE477BF618	470UF KME 16V M
C725	0CE4772J618	470UF KMF 35V 20%
C726	0CE477BF618	470UF KME 16V M
C730	0CE4772J618	470UF KMF 35V 20%
C731	0CE477BF618	470UF KME 16V M
C732	0CE4772J618	470UF KMF 35V 20%
C733	181-120K	2200PF 4KV M E
C734	0CE4772J618	470UF KMF 35V 20%
C735	0CE477BF618	470UF KME 16V M
C736	0CE4772J618	470UF KMF 35V 20%
C777	181-091D	DEHR33A102KN2A 1000PF 1KV 10%,10%
C799	0CE107BF618	100UF KME 16V M
<b>COIL &amp; TRANSFORMER</b>		
L401	0LA0272K139	INDUCTOR,27UH K
L51	6140VR0004A	COIL,B953AS330M=P3, 33UH
L52	6140VR0004A	COIL,B953AS330M=P3, 33UH
T51	6170VH0001A	TRANSFORMER,INVERTER 8.985UH
T52	6170VH0001A	TRANSFORMER,INVERTER 8.985UH
T701	6170VMCA47A	TRANSFORMER,SMPS[COIL] EER3016 510UH
<b>RESISTOR</b>		
FR704	0RP0020J809	0.02 OHM 1 W 20%
L502	0RRZVTA001A	MNR14E0AJ101 R OHM 100 OHM 5%
L503	0RRZVTA001A	MNR14E0AJ101 R OHM 100 OHM 5%
L504	0RRZVTA001A	MNR14E0AJ101 R OHM 100 OHM 5%
L505	0RRZVTA001A	MNR14E0AJ101 R OHM 100 OHM 5%
L506	0RRZVTA001A	MNR14E0AJ101 R OHM 100 OHM 5%
L507	0RRZVTA001A	MNR14E0AJ101 R OHM 100 OHM 5%
L518	0RRZVTA001A	MNR14E0AJ101 R OHM 100 OHM 5%
R200	0RD1000H609	100 OHM 1/2 W 5.00%
R201	0RD1000H609	100 OHM 1/2 W 5.00%
R51	0RS6800J607	680 OHM 1 W 5.00%

# REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION
R54	0RS6800J607	680 OHM 1 W 5.00%
R69	0RN1302F409	13K OHM 1/6 W 1.00%
R70	0RN4701F409	4.7K OHM 1/6 W 1.00%
R701	0RS5602K619	56K OHM 2 W 5.00%
R702	0RKZVTA001C	8.2M OHM 1/2 W 5%
R703	0RKZVTA001K	0.47M OHM 1/2 W 5%
R704	0RS5602K619	56K OHM 2 W 5.00%
R705	0RS3902K619	39K OHM 2 W 5.00%
R705	0RS5602K619	56K OHM 2 W 5.00%
R706	0RS3902K619	39K OHM 2 W 5.00%
R707	0RD3303H609	330K OHM 1/2 W 5.00%
R71	0RN4701F409	4.7K OHM 1/6 W 1.00%
R711	0RS5602K619	56K OHM 2 W 5.00%
R712	0RD6803H609	680K OHM 1/2 W 5.00%
R715	180-A01R	2 W RW ROUND G 0.39
R727	0RD0472H609	47 OHM 1/2 W 5.00%
R728	0RD0472H609	47 OHM 1/2 W 5.00%
<b>SWITCH</b>		
SW1101	140-313A	SWITCH,TACT 2LEAD 100G
SW1102	140-313A	SWITCH,TACT 2LEAD 100G
SW1103	140-313A	SWITCH,TACT 2LEAD 100G
SW1104	140-313A	SWITCH,TACT 2LEAD 100G
SW1105	140-313A	SWITCH,TACT 2LEAD 100G
SW1106	140-313A	SWITCH,TACT 2LEAD 100G
SW1107	140-313A	SWITCH,TACT 2LEAD 100G
SW1108	140-313A	SWITCH,TACT 2LEAD 100G
<b>FILTER &amp; CRYSTAL</b>		
L101	6210TCE001G	FILTER,EMC HH1M3216501
L102	6210TCE001G	FILTER,EMC HH1M3216501
L119	6210TCE001A	FILTER,EMC HB1S2012080JT
L200	6210TCE001A	FILTER,EMC HB1S2012080JT
L201	6210TCE001A	FILTER,EMC HB1S2012080JT
L202	6210TCE001A	FILTER,EMC HB1S2012080JT
L204	6210TCE001A	FILTER,EMC HB1S2012080JT
L205	6210TCE001A	FILTER,EMC HB1S2012080JT
L206	6210TCE001G	FILTER,EMC HH1M3216501
L207	6200JB8010L	FILTER,EMC MLB2012091000LN2
L213	6210TCE001G	FILTER,EMC HH1M3216501
L214	6210TCE001G	FILTER,EMC HH1M3216501
L351	6210TCE001G	FILTER,EMC HH1M3216501
L400	6210TCE001G	FILTER,EMC HH1M3216501
L402	6210TCE001G	FILTER,EMC HH1M3216501
L501	6210TCE001G	FILTER,EMC HH1M3216501
L515	6210TCE001G	FILTER,EMC HH1M3216501
L516	6210VC0004A	FILTER,EMC BK3216 4S600
L517	6210TCE001G	FILTER,EMC HH1M3216501
L580	6210TCE001A	FILTER,EMC HB1S2012080JT
L600	6210TCE001G	FILTER,EMC HH1M3216501
L601	6210TCE001G	FILTER,EMC HH1M3216501

LOCA. NO	PART NO	DESCRIPTION
L602	6210TCE001G	FILTER,EMC HH1M3216501
L603	6210TCE001G	FILTER,EMC HH1M3216501
L701	125-022K	FILTER,EMC 1UH
L99	6210TCE001G	FILTER,EMC HH1M3216501
LF701	6200JB8010U	FILTER,EMC OR 6.0MH11.0MH
LF702	6200JB8010U	FILTER,EMC OR 6.0MH11.0MH
R505	6210TCE001A	FILTER,EMC HB1S2012080JT
Z100	156-A01L	RESONATOR,CRYSTAL HC49U 6.000MHZ
Z500	156-A02X	RESONATOR,CRYSTAL HC49U 27.000MHZ
Z600	156-A02M	RESONATOR,CRYSTAL HC49U 18.432MHZ
<b>MISCELLANEOUS</b>		
F701	0FS3151B51D	FUSE,SLOW BLOW 3150MA 250V
P1101	6631V20014D	CONNECTOR ASSEMBLY,12P 2.0MM
P1102	387-A07X	CONNECTOR ASSEMBLY,7P 2.5MM
P701	6620VZ0002A	SOCKET,DRAWING AC SOCKET
P901	6612VJH008D	JACK,RCA PJ6063D DVD IN 3P
PA1101	6726VV0006D	REMOTE CONTROLLER RECEIVER,38.0KHZ
RJ201	6613V00008F	JACK ASSY,PMJ014F E/P(ST)+SVHS+3P
TH701	163-048D	THERMISTOR,KL15L2R5 +/- 15% 125V
TU401	6700VNF019E	TUNER,TAFHH001P LG NTSC FS .
VA701	164-003K	VARISTOR ,SVC621D14A 620V 0%
<b>ACCESSORIES</b>		
A1	3828VA0359R	MANUAL,OWNERS,ML024C LG EN/FR
A2	6710V00091M	REMOTE CONTROLLER
A3	6410VUH007A	POWER CORD,SP305+IS034 1800MM
A4	6631V00032A	CONNECTOR ASSEMBLY,41P 0.7MM 4

# CIRCUIT DIAGARM FOR MLO24C CHASSIS

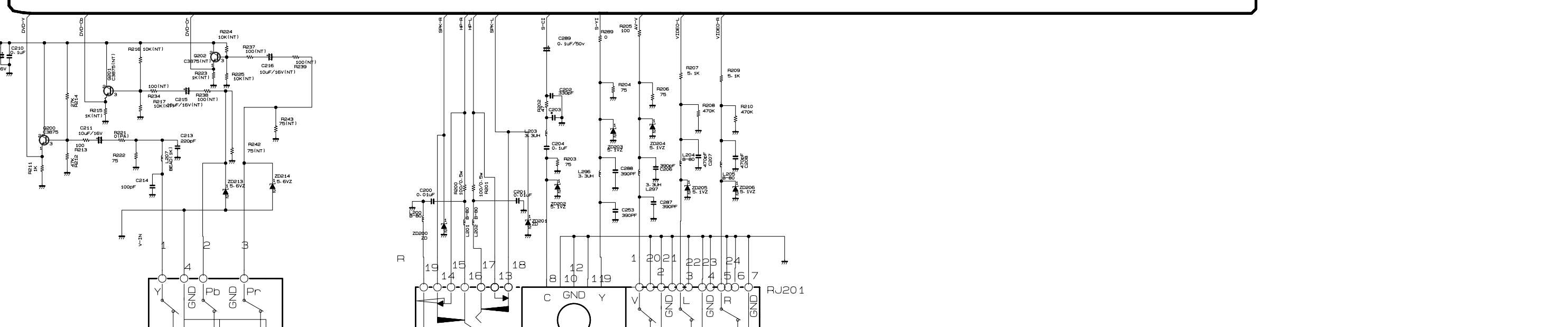
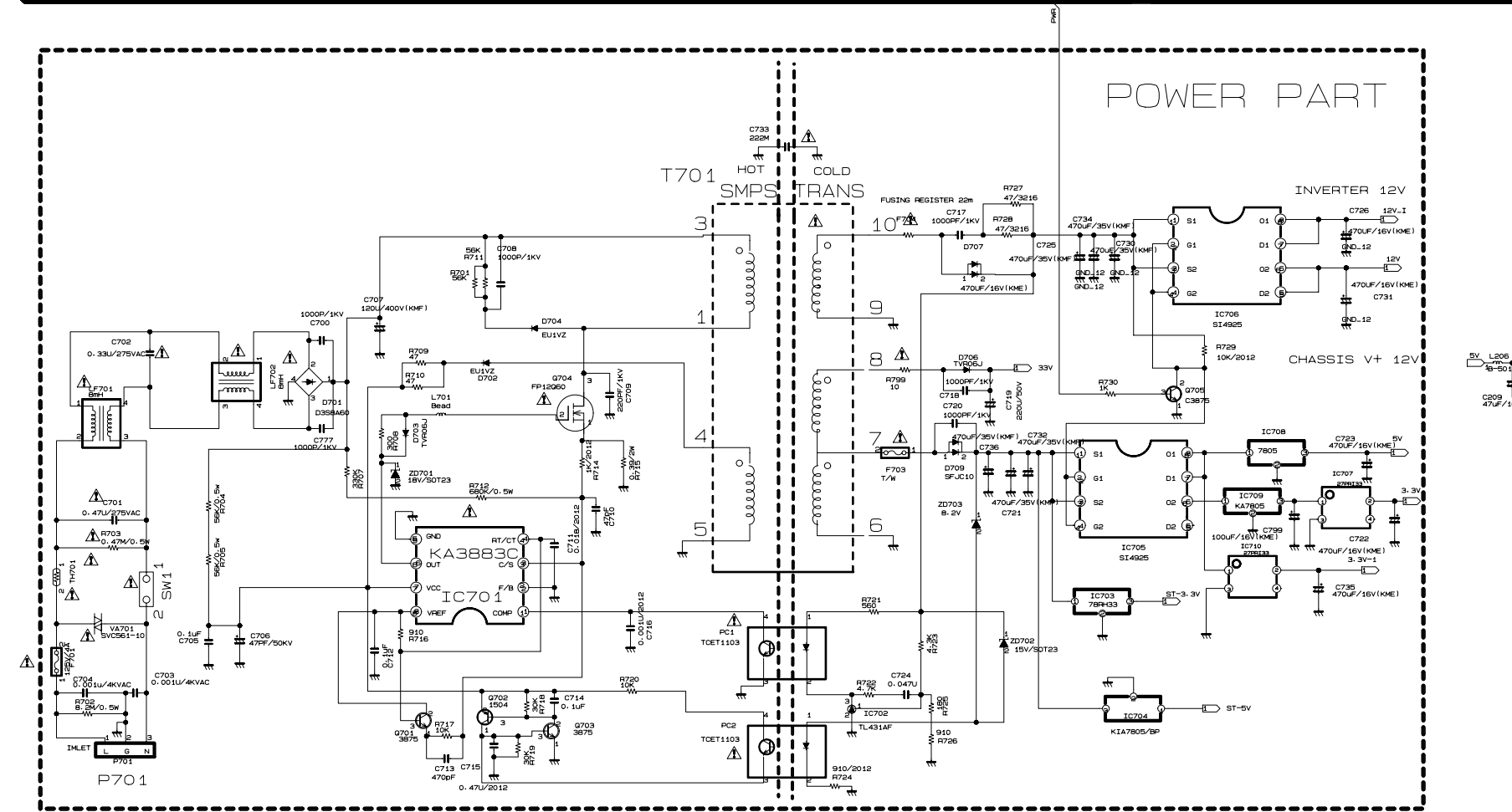
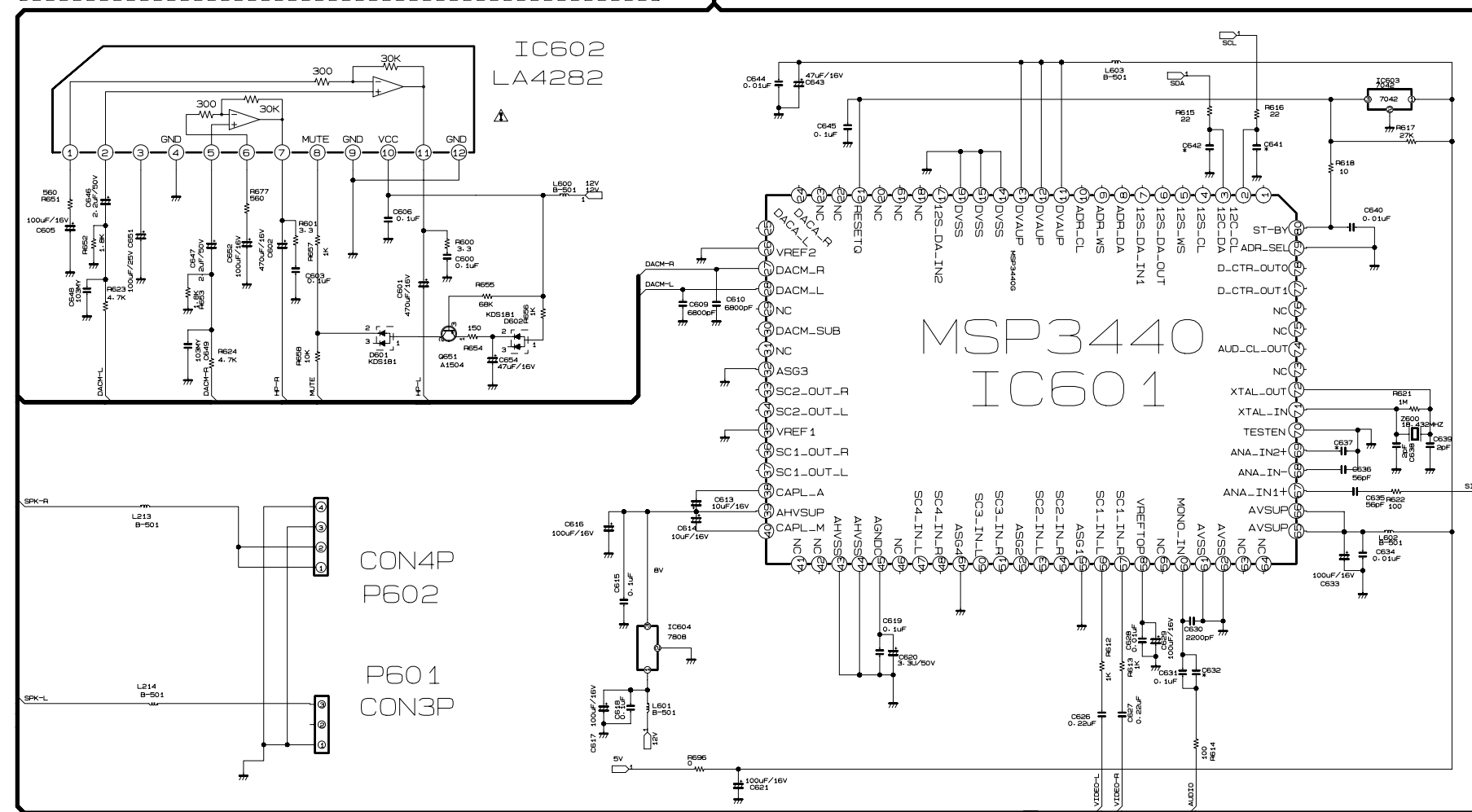
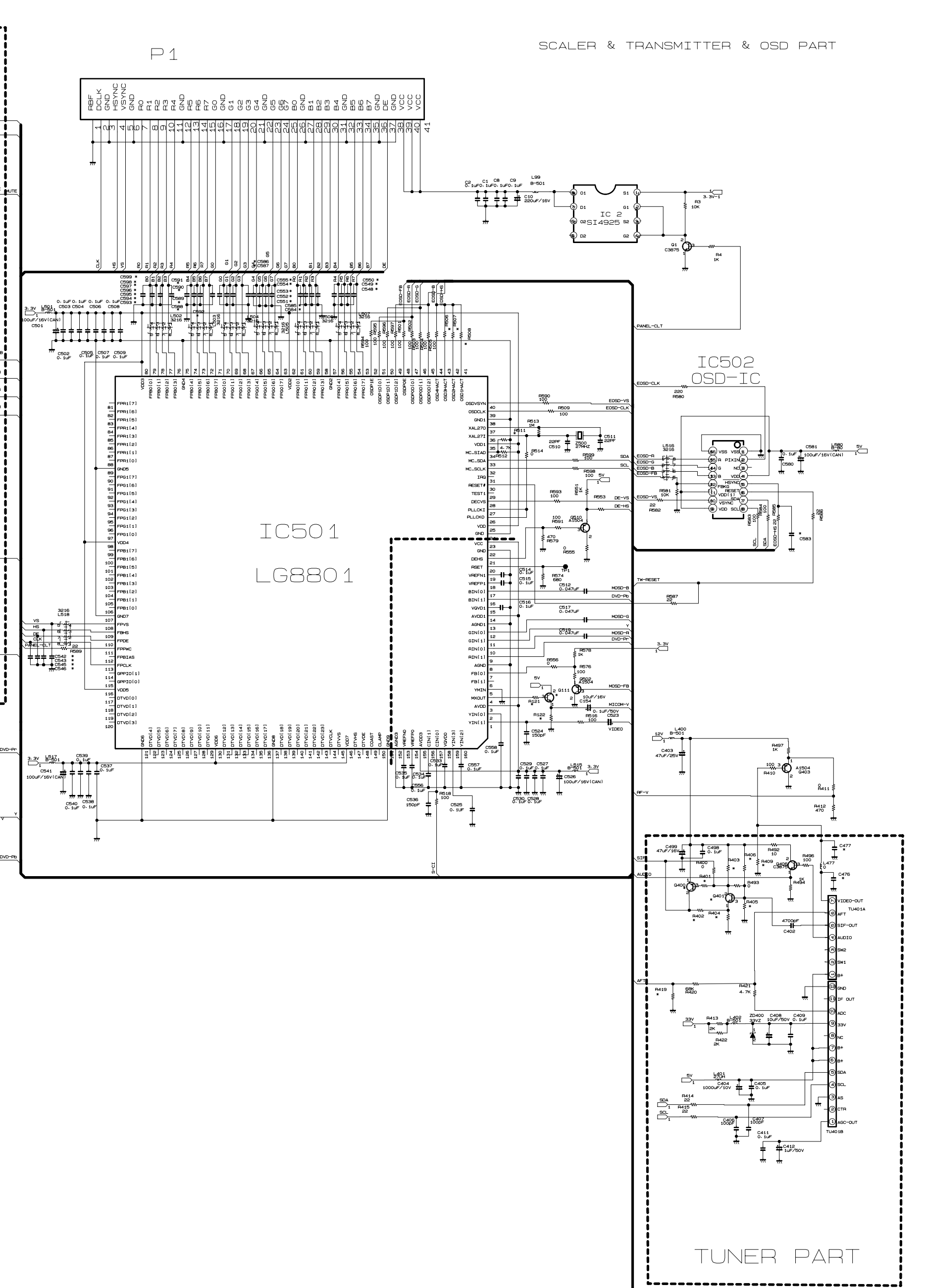
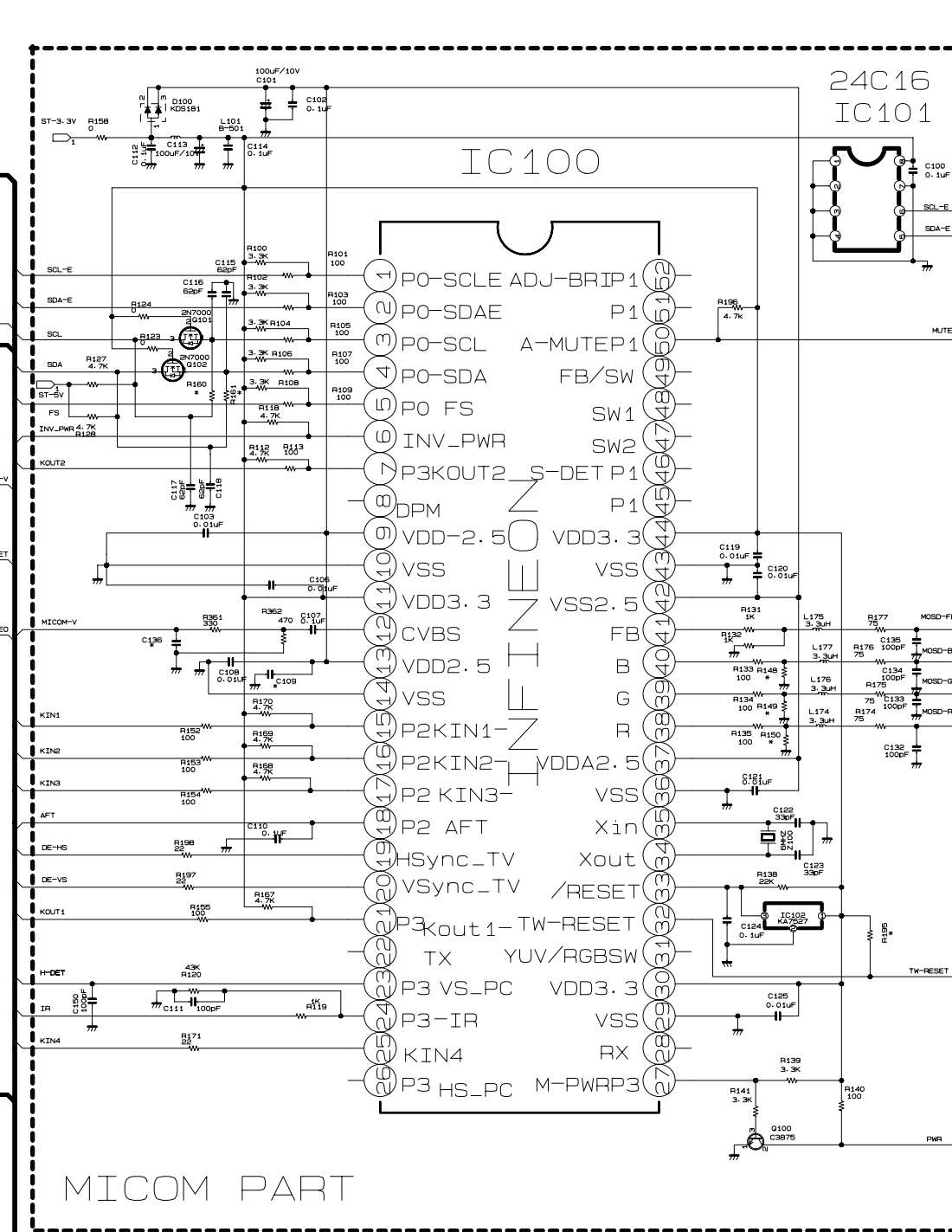
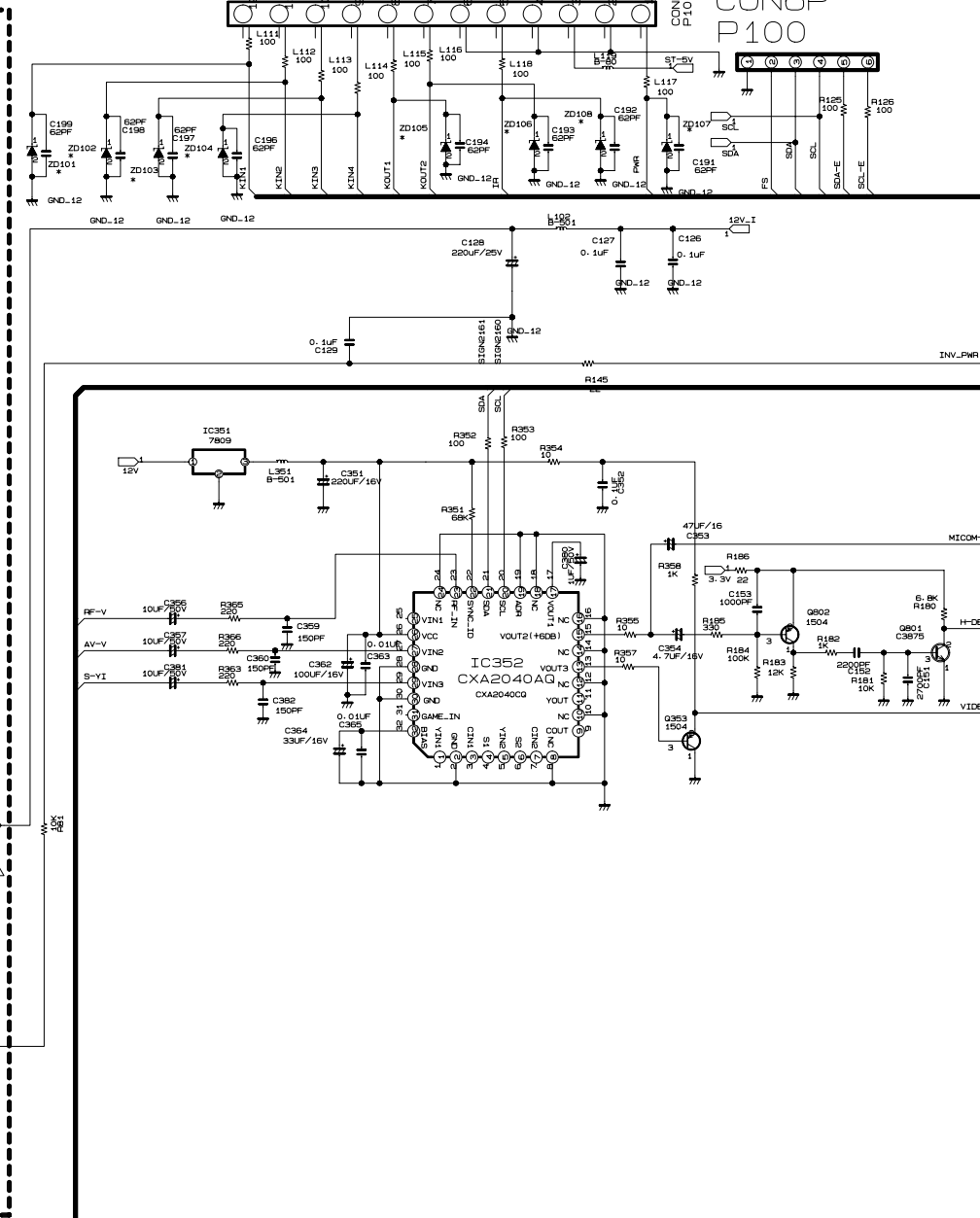
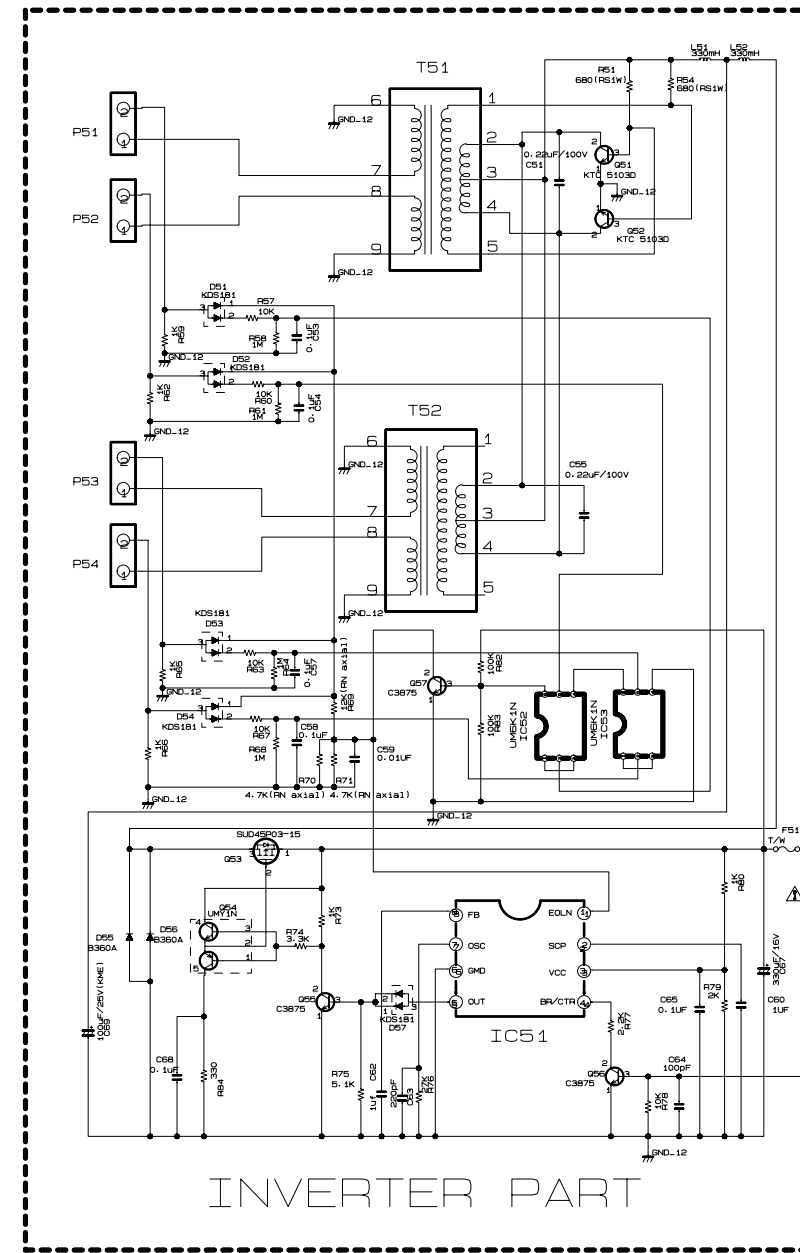


Diagram of the front panel of the 6870VSI481A101 receiver, showing various controls and their pin connections. The panel includes a volume knob (VOL), a channel selector (CH), a power button (POWER), and several function buttons (ENTER, MENU, TV/VIDEO). The diagram also shows the internal wiring and the connection points for the P1101A connector.